

Product	SureSet [®] ™	
Description	Polymer resin bound aggregate surfacing system	
Product Descriptions	Decorative, Tree pits, Garden paths, Patios, Rural Pedestrian, Urban Pedestrian, Driveways, Estate roads, Roofs, DIY Kits	
Applications and Features	<p>SureSet is a flexible resin bound aggregate surfacing system designed to provide a hard wearing, durable, and aesthetically pleasing surface treatment to a variety of substrates.</p> <p>It can be formulated using a range of aggregates of different colours, shapes, and sizes depending on the customer's requirements and the anticipated use.</p> <p>SureSet has many advantages over other resin-based products. It cures rapidly providing more flexibility in programming, allowing the surface to be re-opened for full use very rapidly and minimising any access problems. It can be laid in temperatures as low as 0°C on a rising thermometer (at a slower curing rate) and shows good adhesion to most substrates when used in conjunction with a priming system. It is laid in a thin layer thickness (typically 18mm) thereby reducing the amount of preparation required to tie in with existing levels etc.</p> <p>SureSet can be laid on a variety of substrates for a range of pedestrian and vehicular uses. It can be laid on ramps when anti slip aggregates can be included in its formulation for increased slip resistance.</p>	
Resin Solid Content	100%	
Resin Content	2 to 15% w/w	
Coverage	30 to 42 m ² /tonne (at 16mm depth)	
Pot life (depending on ambient temperature)	45 minutes	
Setting time (depending on ambient temperature)	Initial: 4 hours minimum	Full Cure: 7 days (normally usable next day)
Base Preparation	General: All surfaces should be sound, clean and dry. Levels should be within SureSet tolerances. Attention should be paid that the overall construction will be structurally adequate for the anticipated use.	
	Hardcore: Loose stone should be well compacted and well graded to give a relatively smooth and level finish. Any loose or soft areas should be removed and made good.	
	Bituminous Macadam; max 100/150 PEN to BS EN 13108-1 : 2006. Depending on application.	
	Concrete: Freshly laid concrete should be left for a min of 7 days or an approved impermeable membrane used. Provision should be made in the design for cracking in fresh concrete or joints/cracks sealed/repared in aged concrete. The finish should be lightly tamped and smooth but not polished with a steel float. All concrete should be thoroughly cleaned and an approved sealing/primer coat applied soon before application of SureSet.	

Mixing	The pre-weighed resin should be mixed with a slow speed, high torque drill and mixing paddle for a minimum of 40 seconds until thoroughly mixed. The resin is then added immediately to the stone, which has been pre-mixed in the mobile forced action mixer. After a minimum of 60 seconds the mixed material is discharged into a wheelbarrow and taken to the point of application.		
Application Details	The mixed material is deposited onto the surface to be covered and spread evenly and at a constant depth using a straight bladed squeegee. The surface is then smoothed out using hand trowels. A dressing of fine sand is then applied, if specified, to improve slip resistance.		
Tool Cleaning	Tools can be wetted with white spirit/clean spirit, to act as a slip coat to lubricate them and prevent the material sticking to the surfaces. To dissolve uncured resin, xylene or similar solvents should be used. Cured resin may be softened by immersion in xylene, paint stripper, petrol or gently warmed using hot water and scraped off. SureSet should never be burnt off tools due to the production of noxious fumes.		
Typical Component Properties		Aggregate	Resin
	Appearance	10mm, down to sand sized particles of various colours	Clear/straw coloured liquid
	Viscosity at 20°C (mPa.s)	Not applicable	3500
	Specific Gravity at 20°C	1.00 - 2.70	1.15
Typical Resin Film Properties	Non-Volatile Content (%)	Not applicable	100
	Shore Hardness (oD)	Not applicable	25
	Tensile Strength (MPa)	Not applicable	14
	Elongation at Break (%)	Not applicable	76
	Tear Strength (kN/metre)	Not applicable	31
	Adhesion to glass (cross hatch)	Not applicable	Good
Packaging	Aggregate – 25kgs, Resin – 11 litre and 3.8 litre pre-weighed tubs – up to 25kgs. Catalyst (when supplied separately) in plastic dispensing bottles.		
Storage	In the cool and dry. Resin in sealed containers.		
Shelf Life	Aggregate – indefinitely, Resin – Spring/Summer/Autumn: up to 60 days* Winter : up to 90 days* * if stored in a shaded, cool and dry position, please note that temporary warming in the sun will result in a much reduced shelf life.		